

t12_jordan14

(TMLoDLYQAzdnySXo9X8uiwzHtCc1BgtwP72)

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Let $v1_topreal2 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $r1_jordan1h : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_jordan2c : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_jordan13 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_funct_1 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_finseq_6 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_topreal1 : \iota \Rightarrow o$ be given. Let $v2_topreal1 : \iota \Rightarrow o$ be given. Let $v1_goboard5 : \iota \Rightarrow o$ be given. Let $v2_goboard5 : \iota \Rightarrow o$ be given. Let $v1_sprect_2 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_jordan2c : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_goboard9 : \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_sppol_1 : \iota \Rightarrow o$ be given. Let $v2_sppol_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v3_funct_1 X0) \wedge ((\neg v1_xboole_0 X0) \wedge ((v1_finseq_6 \\ & X0 (u1_struct_0 (k15_euclid np_2))) \wedge ((v1_topreal1 X0) \wedge ((v2_topreal1 \\ & X0) \wedge ((v1_goboard5 X0) \wedge ((v2_goboard5 X0) \wedge ((v1_sprect_2 X0) \wedge \\ & (m2_finseq_1 X0 (u1_struct_0 (k15_euclid np_2)))))))))) \Rightarrow (\\ & r2_jordan2c np_2 (k3_topreal1 np_2 X0) (k2_goboard9 X0)) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. (m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 (k15_euclid X0)))) \Rightarrow \\ & (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 (k15_euclid \\ & X0)))) \Rightarrow ((r2_jordan2c X0 X1 X2) \Rightarrow (r1_tarski X2 (k2_jordan2c X0 X1)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1_tarski X0 X1) \wedge (r1_tarski X1 X2)) \Rightarrow (r1_tarski X0 X2) \tag{3}$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_topreal2\ X0)\wedge(m1_subset_1\ X0\ (k1_zfmisc_1\ (u1_struct_0 \\ (k15_euclid\ np_2))))))\Rightarrow(\forall X1.(m2_subset_1\ X1\ k1_numbers \\ k5_numbers)\Rightarrow((r1_jordan1h\ X0\ X1)\Rightarrow(r1_tarski\ X0\ (k2_goboard9 \\ (k1_jordan13\ X0\ X1)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} ((v2_xxreal_0\ np_2)\wedge(m2_subset_1\ np_2\ k1_numbers\ k5_numbers))\wedge \\ ((m1_subset_1\ np_2\ k5_numbers)\wedge(m1_subset_1\ np_2\ k1_numbers)) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((\neg v1_xboole_0\ X0)\wedge((\neg v1_xboole_0\ X1)\wedge \\ (m1_subset_1\ X1\ (k1_zfmisc_1\ X0))))\Rightarrow(\forall X2.(m2_subset_1 \\ X2\ X0\ X1)\Leftrightarrow(m1_subset_1\ X2\ X1)) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1\ X1\ X0)\Leftrightarrow(m1_finseq_1\ X1\ X0) \quad (7)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (8)$$

Assume the following.

$$\neg v1_xboole_0\ k1_numbers \quad (9)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.(m2_finseq_1\ X1\ X0)\Rightarrow((v1_funct_1\ X1)\wedge \\ (v1_finseq_1\ X1)\wedge(m1_subset_1\ X1\ (k1_zfmisc_1\ (k2_zfmisc_1\ k5_numbers \\ X0)))))) \end{aligned} \quad (10)$$

Assume the following.

$$m1_subset_1\ k5_numbers\ (k1_zfmisc_1\ k1_numbers) \quad (11)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((v7_ordinal1\ X0)\wedge(m1_finseq_1\ X1\ (u1_struct_0 \\ (k15_euclid\ X0))))\Rightarrow(m1_subset_1\ (k3_topreal1\ X0\ X1)\ (k1_zfmisc_1 \\ (u1_struct_0\ (k15_euclid\ X0)))) \end{aligned} \quad (12)$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v1_xboole_0\ X0)\wedge((\neg v3_funct_1\ X0)\wedge((v1_finseq_6 \\ X0\ (u1_struct_0\ (k15_euclid\ np_2)))\wedge((v1_topreal1\ X0)\wedge((v2_topreal1 \\ X0)\wedge((v1_goboard5\ X0)\wedge((v2_goboard5\ X0)\wedge(m1_finseq_1\ X0\ (u1_struct_0 \\ (k15_euclid\ np_2))))))))))\Rightarrow(m1_subset_1\ (k2_goboard9\ X0)\ (\\ k1_zfmisc_1\ (u1_struct_0\ (k15_euclid\ np_2)))) \end{aligned} \quad (13)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (((\neg v1_xboole_0 X0) \wedge (\neg v1_sppol_1 X0) \wedge \\ & ((\neg v2_sppol_1 X0) \wedge ((v1_topreal2 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 \\ & (u1_struct_0 (k15_euclid np_2)))))) \wedge (m1_subset_1 X1 k5_numbers)) \Rightarrow \\ & ((\neg v1_xboole_0 (k1_jordan13 X0 X1)) \wedge ((\neg v3_funct_1 (k1_jordan13 \\ & X0 X1)) \wedge ((v1_finseq_6 (k1_jordan13 X0 X1) (u1_struct_0 (k15_euclid \\ & np_2))) \wedge ((v1_topreal1 (k1_jordan13 X0 X1)) \wedge ((v2_topreal1 (\\ & k1_jordan13 X0 X1)) \wedge ((v1_goboard5 (k1_jordan13 X0 X1)) \wedge ((v2_goboard5 \\ & (k1_jordan13 X0 X1)) \wedge ((v1_sprect_2 (k1_jordan13 X0 X1)) \wedge (m2_finseq_1 \\ & (k1_jordan13 X0 X1) (u1_struct_0 (k15_euclid np_2))))))))))))) \end{aligned} \quad (14)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \quad (15)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))) \Rightarrow ((v1_xboole_0 X0) \Rightarrow (v2_sppol_1 X0)) \quad (16)$$

Assume the following.

$$\forall X0. \forall X1. (v1_xboole_0 X0) \Rightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))) \Rightarrow (v1_xboole_0 X2)) \quad (17)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))) \Rightarrow ((v1_topreal2 X0) \Rightarrow ((v1_topreal2 X0) \wedge ((\neg v1_sppol_1 X0) \wedge (\neg v2_sppol_1 X0)))) \quad (18)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((v1_topreal2 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 \\ & (k15_euclid np_2)))) \Rightarrow (\forall X1. (m2_subset_1 X1 k1_numbers \\ & k5_numbers) \Rightarrow ((r1_jordan1h X0 X1) \Rightarrow (r1_tarski X0 (k2_jordan2c \\ & np_2 (k3_topreal1 np_2 (k1_jordan13 X0 X1)))))) \end{aligned}$$